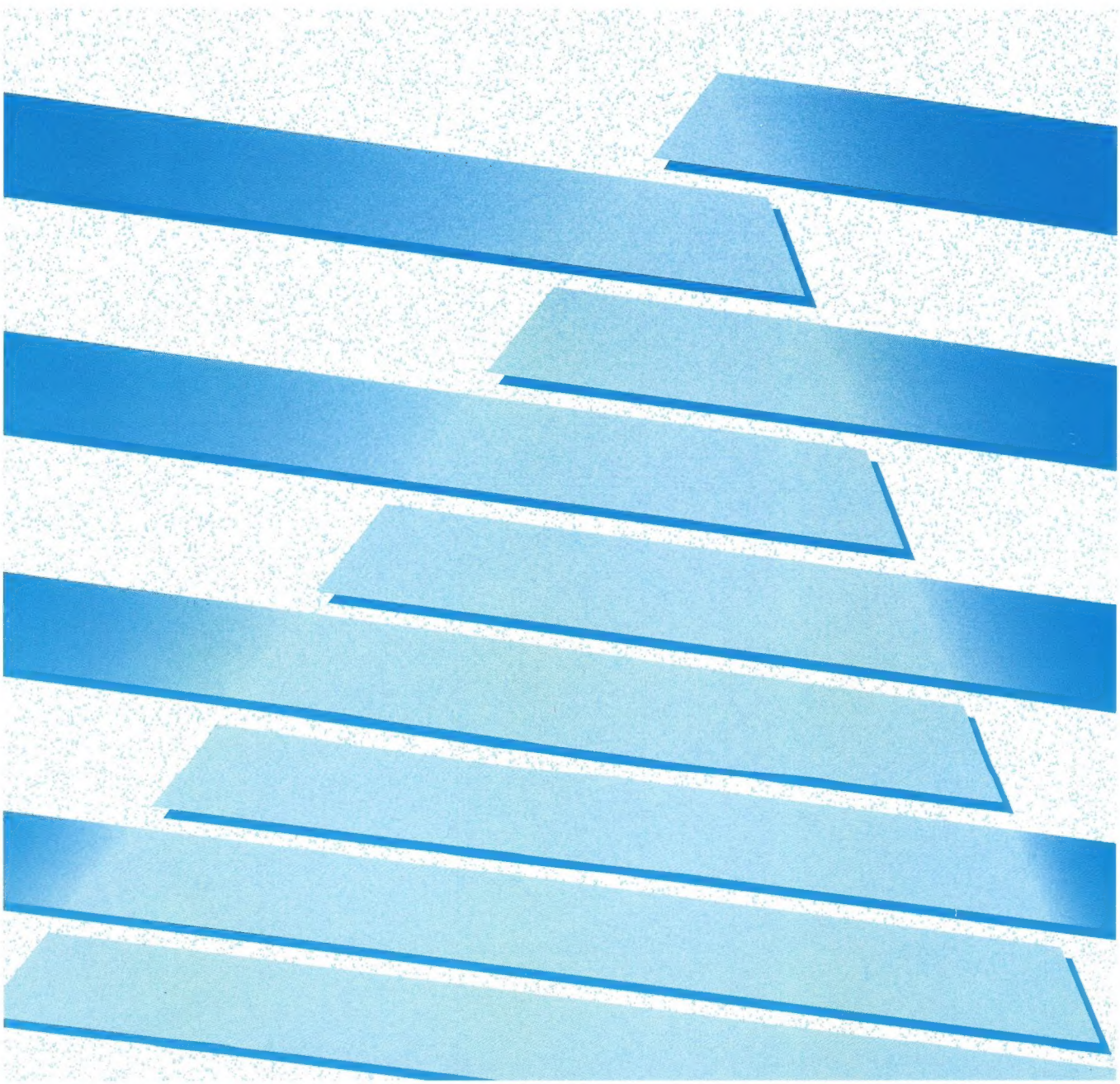
ALLEN-BRADLEY

ControlView™ System Documentor

User's Manual



Important User Information

Because of the variety of uses for this product and because of the differences between solid state products and electromechanical products, those responsible for applying and using this product must satisfy themselves as to the acceptability of each application and use of this product. For more information, refer to publication SGI-1.1 (Safety Guidelines For The Application, Installation and Maintenance of Solid State Control).

The illustrations, charts, and layout examples shown in this manual are intended solely to illustrate the text of this manual. Because of the many variables and requirements associated with any particular installation, Allen-Bradley Company cannot assume responsibility or liability for actual use based upon the illustrative uses and applications.

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Throughout this manual we make notes to alert you to possible injury to people or damage to equipment under specific circumstances.

Warning: Tells readers where people may be hurt if procedures are not followed properly.

Caution: Tells readers where machinery may be damaged or economic loss can occur if procedures are not followed properly.

Warnings and Cautions:

- identify a possible trouble spot
- tell what causes the trouble
- give the result of improper action
- tell the reader how to avoid trouble

Important: To avoid possible data loss, back up your files frequently on an appropriate storage medium.

Preface

This manual describes the features and functions of the System Documentor component of the ControlView system. The System Documentor is installed automatically as part of the ControlView Core.

This manual supplements the information in the *ControlView Core User's Manual*. It contains information on:

- configuring your system to produce reports
- producing and using reports on your application

The System Documentor provides hard copy reports about how you have configured your ControlView system. Reports can be generated through the menus or the command line.

Audience

Read this manual if you intend to use the System Documentor to produce reports about your system's configuration. The System Documentor is a part of ControlView; therefore, you should be familiar with ControlView and have the *ControlView Core User's Manual* available for reference.

Conventions Used in This Manual

This manual follows the print conventions outlined in the *ControlView Core User's Manual*.

Related Publications

A complete list of related publications can be found in the *ControlView Core User's Manual*.

Table of Contents

Chapter 1

Introduction

Why Use the System Documentor?

With ControlView's System Documentor, you can examine your system's configuration without scrolling through dozens or hundreds of configuration screens. As a systems integrator, you can show on paper exactly how you have set up a client's system. As a client, you have an accurate and easy-to-read method of verifying that the system is configured as specified. For a systems maintenance officer, the Documentor supplies a constant and reliable reference for tracking down configuration-related problems or making necessary changes. As a new systems manager, you can get a complete hard copy of all the system's details, including any modifications since it was first installed. And, of course, the Documentor provides a means of reconstructing a system that has not been properly backed up, or of duplicating all or part of a system's configuration for a new plant or process.

What Can I Document?

Using the System Documentor, you can produce up-to-the-minute comprehensive reports about each of the following areas in ControlView:

- Hardware configuration (devices, highways, printers, nodes)
- Databases (scan classes, tags, derived tags, alarms)
- Activity and data logging (including alarms and trending)
- Event detection
- Mouse GRAFIX displays
- Security
- ControlView Core and option revision numbers

How Can I Produce System Documentation?

Reports are easy to configure and produce, with simple fill-in-the-blanks screens and ready-to-use default parameters. All the reports are listed under the *Document* menu item in the Setup Menu, and can be run with a minimum of preparation. For those who prefer the command line, all menu items are also available as commands (see Appendix A).

Reports are produced as ASCII text files. They can be printed and then discarded, or saved in whatever directories you specify. Default file names and paths are supplied by the system, but can be changed either on a system-wide basis or temporarily, one at a time.

Chapter 2

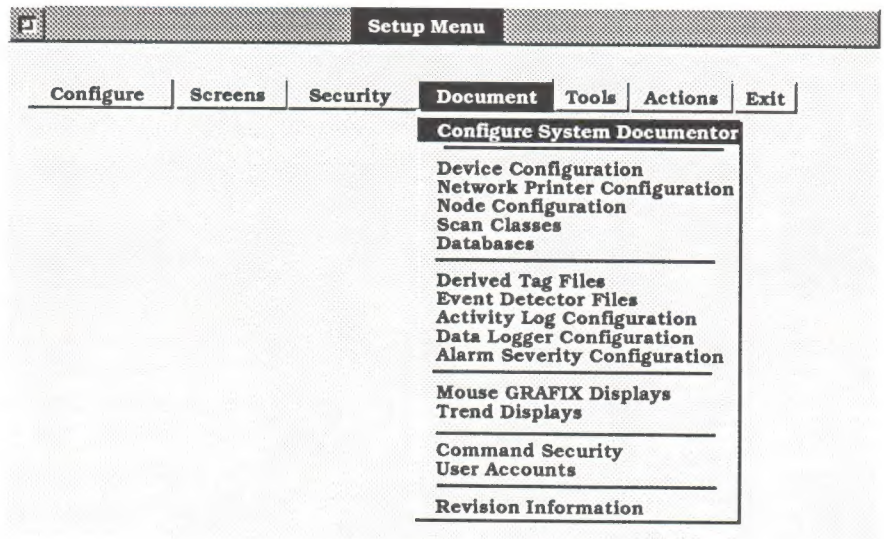
Using the System Documentor

This chapter explains how to produce, save, view and print reports about your ControlView system's configuration.

Available Reports

From the Setup Menu, choose *Document*.

Figure 2-1
The Document Menu



42529

For this release, the following reports are available:

- **Device Configuration**: a report of the entries in the Device Configuration screen, including devices such as a mouse, serial printers, Control Panel keyboards, parallel or network printers, data highways and KT Adaptors
- **Network Printer Configuration**: a report on all network printers as defined in the Novell Printer Configuration window and its associated screens, including server details, banner text and name, and capture data
- **Node Configuration**: a report of the entries in the Node Configuration screen; the names, types, addresses, status, time-out period and number of retries for all programmable controllers configured to communicate with ControlView over the data highway(s)

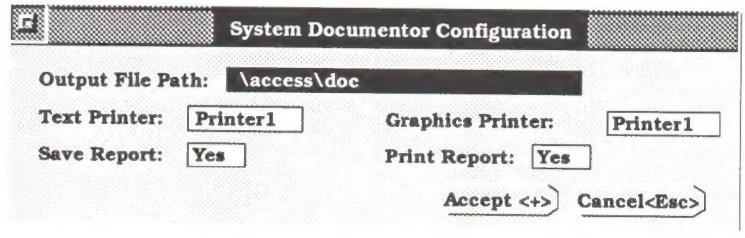
- **Scan Classes**: a report of the entries in the Scan Class Configuration window, defining each scan class's foreground and background periods and the device classes associated with them
- **Databases**: a report on the configuration of the database specified; tag names, types and descriptions, analog, digital and group tag lists, and details of addresses, scale and offset, class and security access. If the Alarming option is installed, includes details of digital and analog alarm configuration for the specified database, as well as Alarm Identification commands and file/printer messages
- **Derived Tag Files**: if the Derived Tag option is installed, a report on the derived tag list and descriptions in the Derived Tag File Editor screen for the Derived Tag file specified
- **Event Detector Files**: if the Event Detector option is installed, a report on the event list and descriptions in the Event Editor screen for the Event Detector file specified
- **Activity Log Configuration**: a report on the entries in the Activity Logging Configuration screen; includes activity type, label, and whether the event is logged to disk, printer or both
- **Data Logger Configuration**: if the Data Logger option is installed, a report on the configuration of the Data Logger model specified, including model name, description, sample rate and file information
- **Alarm Severity Configuration**: if the Alarming option is installed, a report on the configuration of the Alarm Severity Table, showing the attributes for each of the eight alarm severities, including alarm color and logging destinations
- **Mouse GRAFIX Displays:** if the Mouse GRAFIX Editor option is installed, a report on the configuration of graphic control objects in the specified display, and the key commands associated with them; if a PDF (Pixel Dump File) has been generated in the Mouse GRAFIX Editor for the specified display, *and* if a graphics printer has been correctly configured, the report will include a picture of the display
- **Trend Displays**: if the Trending option is installed, a report on the Trend named

- **Command Security**: a report on the commands, macros and displays in the Secure Object Table Editor display, listing each object's name, the access code it is assigned to and comments
- **User Accounts**: a report on the entries in the Security-User Account Browser display, listing each user's name, access code privileges and logon macro
- **Revision Information**: a report listing all installed options, with their revision numbers and dates

Configuring the Report Settings

To redefine the default report settings, choose *Configure System Documentor*.

Figure 2-2
System Documentor Configuration Window



Any changes you make in this window will become the new defaults once they are saved, and will appear in all subsequent System Documentor report windows. The settings can be changed temporarily in each report window any time you produce a System Documentor report.

The fields are:

- Output File Path

  To use a directory other than the default \ACCESS\DOC for your report files, enter the correct path here.

- Text Printer

  Choose a text printer, one of Printer1 through Printer4 as previously defined in the Device Configuration screen.

- Graphics Printer

  Choose a graphics printer, one of Printer1 through Printer4 as previously defined in the Device Configuration screen. This will probably, but not necessarily, be a different printer than the text printer chosen above.

  Note: For this release, only the Mouse GRAFIX Report option can print graphics.

- Save Report

  To save your report files to disk, choose *Yes*.

- Print Report

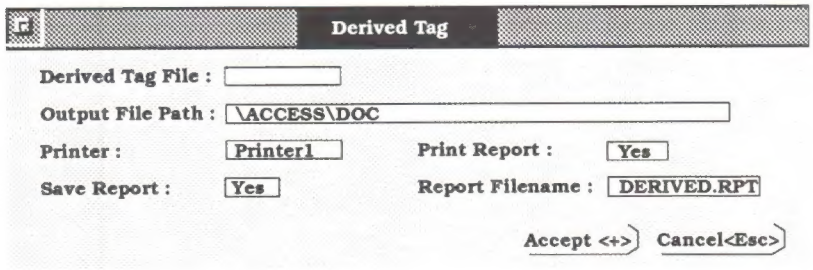
  To send your reports to the printer, choose *Yes*.

If you choose *No* for both of these settings, ControlView will show an error message.

The Filename Field

Choose *Derived Tag Files*. The Derived Tag Report window opens. This window (as well as the windows for Data Logger Configuration, Event Detector Files, and Trend Display reports), has an additional field in which you must specify a filename. Otherwise, the fields are the same.

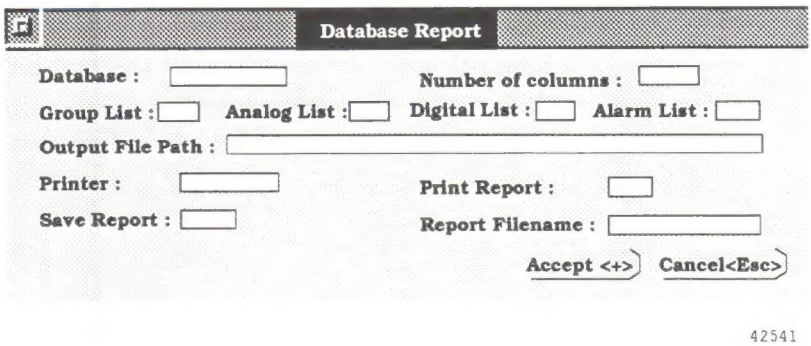
Figure 2-3
Derived Tag Report Window



Additional Fields in the Database Report Window

For a third example, choose *Databases*. The Database Report window opens.

Figure 2-4
Database Report Window



This window is unique in having several additional fields:

- Database

  Type in the name of the database that you want the report on.

- Number of columns

  Choose one of 80 or 132 columns per line.

- Group List

  If you want the database report to include a list of group tags, choose *Yes*.

- Analog List

  If you want the database report to include a list of analog tags, choose *Yes*.

- Digital List

  If you want the database report to include a list of digital tags, choose *Yes*.

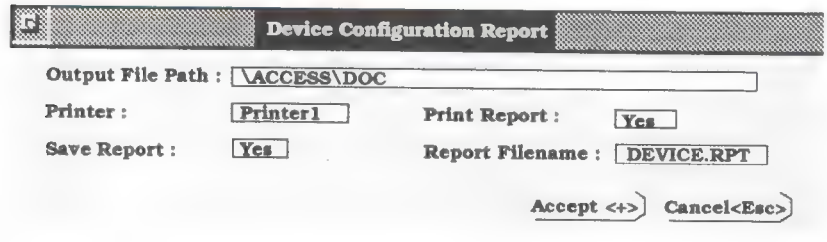
- Alarm List

  If you want the database report to include a list of tags with alarms, choose *Yes*.

Producing a Report

All reports are produced in the same way. For example, choose *Device Configuration*. The Device Configuration Report window opens. The fields contain the defaults from the System Documentor Configuration window, and a default filename. You can change any or all of these for this report only.

Figure 2-5
Device Configuration Report Window



To produce the report, accept the entries on the screen with the *Accept* button or the + key. The system will create the report as an ASCII text file, printing and/or saving it to disk, depending on your choices.

Here is a sample of a Device Configuration Report based on a possible ControlView configuration.

Figure 2-6
Sample Device Configuration Report

ControlView Device Configuration Report

05-08-91 2:27:45 pm

Device Configuration

Serial Port	Device	Baud Rate	Data Bits	Stop Bits	Parity
IBMCOM1	MOUSE	1200	8	1	NONE
IBMCOM2	HIGHWAY1	19200	8	1	NONE
MXCOM3	PANEL1	1200	8	1	ODD
MXCOM4	PRINTER2	1200	7	2	ODD

Printer Port	Device
LPT1	PRINTER3
LPT2	
NetLPT1	PRINTER2
NetLPT2	
NetLPT3	

Use PS/2 Auxiliary Mouse Port No

Printer Configuration

Printer Device	Printer Type	Spool Size (Kilobytes)	Initialization Code
PRINTER1	B+W	125	27 15
PRINTER2	JX80	100	
PRINTER3	HP-PCL	100	
PRINTER4	B+W	125	27 15

Spool Path
\access\tmp\

Page 1

Highway Configuration

	Type	No. of messages
HIGHWAY1	DH485	3
HIGHWAY2	DH/DH+	3

KT Adaptor Configuration

Adaptor	Device	Address	Terminating Resistor
KT1	HIGHWAY2	17	RESET
KT2			

Page 2

Note: The recent addition of the"Base Address" field to the KT Configuration screen is not currently reflected in the System Documentor Device Report.

Here is a sample report using the SALAD database from the Sample Applications:

Figure 2-7
Sample Database Report

ControlView Database Report

Database: salad Date: 06-04-91 11:42:31 am

Tag Name	Tag Type	Tag Description
MIXER	GROUP	
MIXER.LEVEL	ANALOG	Salad dressing mixer tank level
MIXER.MOTOR	DIGITAL	Mixer motor control
MIXER.OILIN	ANALOG	Salad mixer oil flow in
MIXER.OUTFLOW	ANALOG	Sald mixer total flowout
MIXER.RATIO	ANALOG	Mixer oil to vinegar ration
MIXER.VALVE	DIGITAL	Salad mixer tank valve
MIXER.VININ	ANALOG	Salad mixer vinegar flow in
OIL	GROUP	
OIL.LEVEL	ANALOG	Bulk salad oil level
OIL.VALVE	DIGITAL	Bulk oil tank valve
VIN	GROUP	
VIN.LEVEL	ANALOG	Bulk vinegar tank level
VIN.VALVE	DIGITAL	Bulk vinegar tank valve

Figure 2-7
Sample Database Report (cont'd)

ControlView Database Report Analog Tag List

==========

Database: salad Date: 05-03-91 11:42:31 am

Tag Name	Node::Address & Offset	Tag Scale & Offset	Class & Access
MIXER.LEVEL			1
		0	*
MIXER.OILIN			1
		0	*
MIXER.OUTFLOW			1
		0	*
MIXER.RATIO			1
		0	*
MIXER.VININ			1
		0	*
OIL-LEVEL			1
		0	*
VIN.LEVEL			1
		0	*

ControlView Database Report Digital Tag List

==========

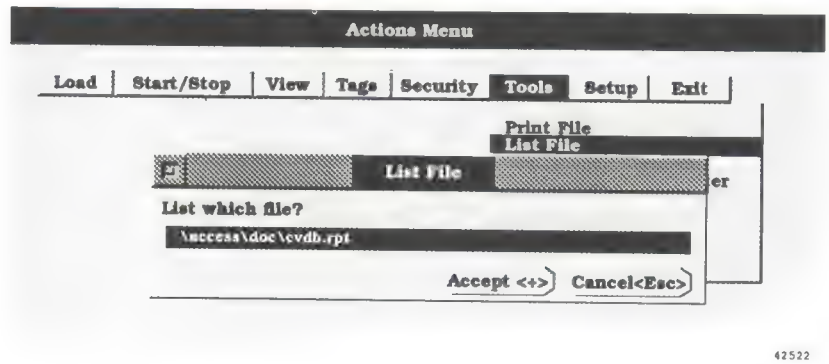
Database: salad Date: 05-03-91 11:42:31 am

Tag Name	Node::Address & Offset	On Label & Off Label	Class	Access
MIXER.MOTOR		motor_on		*
		motor_off		
MIXER.VALVE		open		*
		close		
OIL.VALVE		open		*
		close		
VIN.VALVE		open		*
		close		

Viewing or Printing a Report

To view a report that has been saved to disk, choose *List File* under Tools.

Figure 2-8
List File Window



42522

Type in and accept the path and filename, and the file will appear in the List/Print window.

To print a report file, choose *Print File* and follow the same steps.

Appendix A

System Documentor Commands

ACCOUNTRPT

ACCOUNTRPT

Opens the Security Account Report window. From this window you can produce an ASCII file report on the configuration of all security accounts currently in use by ControlView.

ACTIVITYRPT

ACTIVITYRPT

Opens the Activity Log Report window. From this window you can produce an ASCII file report on the configuration of the Activity Log currently in use by ControlView.

ALARMRPT

ALARMRPT

Opens the Alarm Configuration Report window. From this window you can produce an ASCII file report on the configuration of alarm severity.

CLASSRPT

CLASSRPT

Opens the Scan Class Configuration Report window. From this window you can produce an ASCII file report on the configuration of scan classes for the database currently in use by ControlView.

DATALOGRPT

DATALOGRPT [*model*]

Opens the Data Logger Report window. From this window you can produce an ASCII file report on the configuration of the Data Logger model named.

[*model*] is the name of a Data Logger model. If not specified, the model name will have to be entered in the appropriate field in the window.

DBRPT

DBRPT [*database*]

Opens the Database Report window. From this window you can produce an ASCII file report on the configuration of a database.

[*database*] is the name of a database. If not specified, the database name will have to be entered in the appropriate field in the window.

DERIVEDRPT

DERIVEDRPT [*filename*]

Opens the Derived Tag Report window. From this window you can produce an ASCII file report on the configuration of derived tags in the derived tag file named.

[*filename*] is the name of a derived tags file. If not specified, the filename will have to be entered in the appropriate field in the window.

DEVICERPT

DEVICERPT

Opens the Device Configuration Report window. From this window you can produce an ASCII file report on the configuration of the Device Configuration currently in use by ControlView.

DOCUMENTOR

DOCUMENTOR

Opens the System Documentor Configuration window where default parameters for System Documentor reports are defined.

EVENTRPT

EVENTRPT [*filename*]

Opens the Event Detector Report window. From this window you can produce an ASCII file report on an Event Detector file.

[*filename*] is the name of an Event Detector file. If not specified, the filename will have to be entered in the appropriate field in the window.

GRAFIXRPT

GRAFIXRPT [*filename*]

Opens the Mouse GRAFIX Report window. From this window you can produce an ASCII file report on the configuration of the graphic control objects and key definitions for a GRAFIX display.

[*filename*] is the name of a Mouse GRAFIX display file. If not specified, the filename will have to be entered in the appropriate field in the window.

NODERPT

NODERPT

Opens the Node Configuration Report window. From this window you can produce an ASCII file report of all nodes (programmable controllers) currently configured to communicate with ControlView via the communication network (data highway).

NOVRPT

NOVRPT

Opens the Novell Printer Report window. From this window you can produce an ASCII file report detailing the Novell printer configuration parameters for network printers NetLPT1, NetLPT2 and NetLPT3 as defined in the Novell Printer Configuration and Novell Printer Capture Data screens.

REVISIONRPT

REVISIONRPT

Opens the Revision Report window. From this window you can produce an ASCII file report on the revision number of all options currently installed on ControlView.

SECURITYRPT

SECURITYRPT

Opens the Security Command Report window. From this window you can produce an ASCII file report on all object security configured on ControlView.

TRENDRPT

TRENDRPT [*filename*]

Opens the Trend Report window. From this window you can produce an ASCII file report on a trend display configuration.

[*filename*] is the name of a trend display. If not specified, the filename will have to be entered in the appropriate field in the window.

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